Lake Conference
Neural Coding & Dynamics

Conference Agenda*

Sunday, September 17

Time	Activity	Location
17:00-19:00	Registration Opens & Reception Begins	Lake Washington Ballroom Terrace
19:00-20:00	Introduction: **Rui Costa**, Allen Institute	Lake Washington Ballroom
	Opening Remarks: **Chair: Karel Svoboda**, Allen Institute for Neural Dynamics	
	Keynote Lecture: Sebastien Bubeck, Microsoft Research | *Title TBD*	

Monday, September 18

Time	Activity	Location
08:00-09:00	Breakfast	Bellevue Room
	Chair: Tom Mrsic-Flogel	
09:00-09:25	**Surya Ganguli**, Stanford University *Title TBD*	Lake Washington Ballroom
09:25-09:50	**Sylvia Arber**, FMI Basel Licensing actions through basal ganglia and brainstem circuits	

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09:50-10:15	**Eugenia Chiappe,** Champalimaud Research Recurrent circuit interactions for invariant self-motion estimation in walking *Drosophila*	
10:15-11:00	**Coffee Break**	
11:00-11:25	**Tim Behrens**, Oxford University Representing the structure of sequences	Lake Washington Ballroom
11:25-11:50	**SueYeon Chung**, New York University & Flatiron Institute *Title TBD*	
11:50-12:15	**Dora Angelaki**, New York University *Title TBD*	
12:15-14:00	**Lunch**	Bellevue Room
	Chair: Beth Buffalo	
14:00-14:25	**Hidehiko Inagaki**, Max Planck Florida Institute for Neuroscience Neocortical mechanisms of motor learning	Lake Washington Ballroom
14:25-14:50	***Vanessa Ruta**, The Rockefeller University* *Adaptive circuit algorithms for olfactory navigation*	
14:50-15:15	**Bence Ölveczky**, Harvard University Neural circuits underlying learned motor sequence execution	
15:15-16:00	**Coffee Break**	
16:00-16:25	**Jeremiah Cohen**, Allen Institute for Neural Dynamics *Title TBD*	Lake Washington Ballroom
16:25-16:50	**Bob Datta**, Harvard University *Title TBD*	
16:50-17:15	**Rainer Friedrich**, Friedrich Miescher Institute for Biomedical Research Computational functions of neuronal assemblies in a synaptically balanced memory network	
17:30-19:00	**Dinner**	Bellevue Room
19:00-21:00	**Poster Session 1** (A-K)	Seattle Rooms

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Tuesday, September 19

Time	Activity	Location
08:00-09:00	Breakfast	Bellevue Room
	Chair: Nachum Ulanovski	
09:00-09:25	**Ken Harris**, University College London – remote presentation Secondary motor cortex drives perseverative behavior in mice	Lake Washington Ballroom
09:25-09:50	**Marina Garrett**, Allen Institute for Neural Dynamics Stimulus novelty uncovers functional diversity in visual cortical circuits	
09:50-10:15	**Ştefan Mihalaş**, Allen Institute *Title TBD*	
10:15-10:25	**Amy Orsborn**, University of Washington Flexible multi-modal electrophysiology for data-driven neuronal network measurements in non-human primates	
10:25-11:00	**Coffee Break**	
11:00-11:25	**Mehrdad Jazayeri**, Massachusetts Institute of Technology Vector production via mental navigation in the entorhinal cortex	Lake Washington Ballroom
11:25-11:50	**Claudia Clopath**, Imperial College London De novo motor learning creates structure in neural activity space that shapes adaptation	
11:50-12:15	**Laura Driscoll**, Stanford University Flexible multitask computation in recurrent networks utilizes shared dynamical motifs	
12:15-14:00	**Lunch**	Bellevue Room
	Chair: Eugenia Chiappe	Lake Washington Ballroom
14:00-14:25	**Alexandre Pouget**, University of Geneva Brain wide representations of prior information in mouse decision-making	
14:25-14:50	**Ila Fiete**, Massachusetts Institute of Technology *Title TBD*	

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14:50-15:15	**Edvard Moser**, Norwegian University of Science and Technology Computing space in networks of the entorhinal cortex	
15:15-16:00	**Coffee Break**	
16:00-16:25	**Georg Keller**, Friedrich Miescher Institute for Biomedical Research Cortical circuits for predictive processing	Lake Washington Ballroom
16:25-16:50	**Agostina Palmigiano**, Columbia University *Title TBD*	
16:50-17:15	**Tony Zador**, Cold Spring Harbor Laboratory From Circuitry to Computation	
17:30-19:00	**Dinner**	Bellevue Room
19:00-21:00	**Poster Session 2** (L-Z)	Seattle Room

Wednesday, September 19

Time	Activity	Location
08:00-09:00	Breakfast	Bellevue Room
	Chair: Georg Keller	
09:00-09:25	**Anne Churchland**, University of California, Los Angeles Engaged decision-makers align spontaneous movements to stereotyped task demands	Lake Washington Ballroom
09:25-09:50	**Tatiana Engel**, Princeton University Latent circuit inference from heterogeneous neural responses during cognitive tasks	
09:50-10:15	**Dan Yamins**, Stanford University *Title TBD*	
10:15-10:25	**Rajesh Rao**, University of Washington A Sensory-Motor Theory of the Neocortex based on Active Predictive Coding	
10:25-11:00	**Coffee Break**	

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11:00-11:10	**Chi Zhang**, Allen Institute of Brain Science Local connectivity of mouse primary visual cortex	Lake Washington Ballroom
11:10-11:35	**Dan Turner-Evans**, University of California, Santa Cruz *Title TBD*	
11:35-12:00	**Ilana Witten**, Princeton University Learning from post-ingestive feedback	
12:00-12:25	**Ann Hermundstad,** Janelia Research Campus Structural priors for rapid learning	
12:25-14:00	**Lunch**	Bellevue Room
14:00	**Load Buses**	Meet in Hyatt Regency Lobby
14:00-18:00	**Visit the Allen Institute**	
15:00-16:00	Allen Institute Science **Bosiljka Tasic, Nuno da Costa, Josh Siegle**	Allen Institute Auditorium
16:00-17:00	Allen Institute Tours Neural Dynamics, Brain Science	
16:00-18:00	Allen Institute Reception & Posters	
18:00	**Load Cruise Boat**	
18:00	**Non-boat attendees load bus back to Hyatt**	Return to Hyatt Regency hotel
18:30-21:00	**Boat Cruise** Dinner, beer, and wine will be provided with a cash bar for spirits. Please email events@alleninstitute.org to opt out of the cruise and take a shuttle back to the hotel instead.	Argosy Cruise – Lake Washington

Thursday, September 20

Time	Activity	Location
08:00-09:00	Breakfast	Bellevue Room
	Chair: Tatiana Engel	

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09:00-09:25	**Nachum Ulanovsky**, Weizmann Institute of Science Neural codes for natural behaviors in flying bats	Lake Washington Ballroom
09:25-09:50	**Beth Buffalo**, University of Washington Title TBD	
09:50-10:00	**Dylan Rich**, Princeton University Dynamic Neural Representations in the Hippocampus During Flexible Navigation	
10:00-10:10	**Eleanor Brown**, Boston University *Dopamine cue responses encode a heading direction error with spatially varying representations across the striatum*	
10:10-10:40	**Coffee Break**	
10:40-10:50	**Vivek Athalye**, Columbia University The coordinated dynamics of D1R and D2R neurons in striatum encode and modulate specific forces of the forelimb	Lake Washington Ballroom
10:50-11:15	**Carl Schoonover**, Allen Institute of Neural Dynamics Experience dependence of connectivity in olfactory cortex	
11:15-11:40	**Liping Wang**, Institute of Neuroscience, Chinese Academy of Sciences The control of sequence working memory in macaque frontal cortex	
11:40-13:00	**Lunch**	Bellevue Room
13:00	**Departure**	

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